FUJITSU

Data Sheet
FUJITSU CELVIN® NAS QR802 Storage

Powerful 4-Drive NAS Rack Solution

The Fujitsu CELVIN® NAS Server QR802 is the ideal solution for file sharing, end to end backup options and SAN (Storage Area Network) integration for SMB customers - enabling centralized data management at a reasonable price. It has dual power supplies for superior reliability with up to 16 TB of storage capacity and is designed to be rack mounted right alongside other networked enterprise equipment.

Business Server Features
- Rack mountable
- Four hot swappable business critical or NAS drives
- VMWare®/Citrix®/HyperV™ Capable
- Redundant power supplies and cooling
- Failover redundancy and load balancing
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- Seven RAID Levels: 0/1/5/5+HS/6/10/JBOD
- Two year On-Site warranty as standard - Upgradable to Next Business Day response

Reliability
- Redundant power supplies
- Service-friendly cabinet
- 3-years spare part supply
- Country-specific warranty
- Top-up services are available

CELVIN® NAS QR802

Technical specifications

	Firmware based on 4.1.1 Processor: Intel® Atom™ D270x 2,1GHz Memory: 1 GB DDRIII RAM 　　　512 MB Flash on DOM FAN:2 x quiet cooling fan (4cm) Intel® 82574L NIC x2 Gigabit LAN Formfactor: 1U rackmount
Hard disk capacity	Up to 4 x 2.5-inch or 3.5-inch SATA I/II/SATA 6Gb/s HDD or SSD up to 16TB raw capacity, consult HDD compatibility list HDD drives hot swappable
Hard disk notes	24 x 7 NAS Edition Drives
LED	USB Status HDD 1 -4 LAN Power
System controls	Power button, One-touch copy button, Alarm Buzzer (System Warning), Reset Button
Color	Black housing, copper colored trays

Interfaces

USB 2.0 total	Front side: x1; rear side: x4
USB 3.0 total	Rear side: x2
eSATA	Rear side: x2
VGA	Rear side: x1 (maintainance only)
LAN / Ethernet	Rear side: x2 Gigabit RJ-45 Ethernet port (always on)

Network protocols

Networking	TCP/IP (IPv4 /IPv6 dual stack), multi IP setting,LACP, Port trunking /NIC teaming: 　　Balance-rr (Round-Robin), Active Backup, Balance XOR, Broadcast, IEEE 802.3ad, 　　Balance-tlb (Adaptive, Transmit Load Balancing), Balance-alb (Adaptive Load Balancing) DHCP client, DHCP server including PXE boot CIFS/SMB(1.0,2.0,2.1,3.0 selectable), AFP/Netatalk3.2, NFS v3, HTTP, HTTPS, FTP,SFTP(admin), DDNS, NTP, Telnet, SSH, iSCSI, SNMP,WebDAV,SMSC Dual Gigabit w/ Jumbo Frame, Bonjour iSCSI target (with multi-LUNs per target), Up to 256 LUNs/targets combined iSCSI LUN online expansion LUN mapping / LUN masking Online LUN capacity expansion SCSI Primary Commands -3 (SPC-3) support / persistent reservation MC/S (multiple TCP connections / session) support to reach iSCSI target MPIO (multipath input output) for load balancing and failover iSCSI LUN Backup, One-time-Snapshot and Restore iSCSI initiator for virtual disks (max 8 disks); stack chaining master 　　Virtual disk support for EXT3/ EXT4/ NTFS/ FAT32/ HFS+ iSCSI Connection and Management by Fujitsu Finder (Windows) Support for VMware VSphere 4 and 5 via NFS and iSCSI Windows Server 2008 support (Hyper-V & failover clustering) Citrix XenServer (6.0) VLAN 802.1Q USB WiFi-Adapter support IEEE 802.11b/g/n/ac 　　WEP, WPA-personal (AES/TKIP), WPA2-personal (AES) 　　 Connection to wireless network or Ad Hoc network

Backup Management	Client backup software Time machine backup (OS X Lion support) 3rd party backup software support Encrypted block-level remote replication (instant, scheduled backup management); synchronization mode/Rsync Real-time remote replication (RTRR protocol) for real-time backup of server & client, 3 sync modes, filter, policy definition, SSL protected Backup to Cloud Backup to (encryptable) USB/eSATA storage devices LUN backup and restore LUN point-in-time snapshot (1x)

File System Management	Network share management '(max. 512 shares)
	Share folder level ACL support
	Unicode support
	Journaling file system
	Web File Manager
	      File management by Web-browser
	      File and folder search
	      Direct file viewing via Google Docs support (pdf,tif/tiff,ppt,doc,xls,pptx,docx,xlsx,svg,odt)
	      Create and send download links for public file sharing (time expiration, password protected)

Disk Management	Disk usage status management; HDD S.M.A.R.T.; Bad blocks scan RAID 0/1/5/5+HS/10/6, JBOD, single disk Online RAID capacity expansion; online RAID-level migration RAID recovery, Bitmap support ISO mounting (max 256) via Web File Manager
User Management	User quota management Windows Active Directory support, max. 10k users LDAP directory service supports Open LDAP, max. 10k domain users User account management (max. 4096users) User group management (max. 512 groups) Shared folders (max. 512) Concurrent connections (max. 256) Support batch creating users User Import/ Export for Multiple CELVIN NAS Deployment Subfolder Permission (File/Directory ACL) Microsoft Networking (Samba) Host Access Control (Domain/IP)
Radius Server	Support for 802.1x security authentication: PAP , EAP-TLS/PAP, EAP-TTLS/PAP (WPA-Enterprise, WPA2-Enterprise) max. 10 RADIUS clients, max. 4096 users
VPN Server	OpenVPN up to 256bit SSL/TLS, PPTP up to 128bit encryption
System Tools	E-mail alert (SMTP authentication); SMS alert notification Disk usage alert HDD standby mode Automatic power on after power loss Schedule power on/ off (15 settings max) System firmware upgrade Wake-on-LAN Smart fan setting Back up, restore, reset system settings Configurable management port Remote login by Telnet connection USB, SNMP(v2, v3) UPS support Network recycle bin
Event Logs	Complete system logs (file level): system events management, connection logs, current connection of on-line users Centralized monitoring / syslog server (TCP / UDP) Manually and advanced log filtering via wizzard
Multilingual (Online) Support	Primary languages: English, German, Czech, Danish, Spanish, French, Italian, Norwegian, Polish, Russian, Finish, Swedish, Dutch, Turkish, further languages available via GUI
FTP Server	FTP remote access (max. 256 concurrent connections) FTP with SSL/ TLS (explicit) mode FTP bandwidth control and connection control Passive FTP port range control FXP support TFTP server (PXE boot) SFTP (admin only)

Printer Server	USB printer network sharing (Windows / Mac)
	Internet printing protocol, printer management, Apple Bonjour printing
Web Server	Built-in editable php.ini, SQLite and MySQL
	Web-based management via phpMyAdmin
	Max. 32 virtual hosts
MySQL Server	MySQL database server
Security	Network access protection with autoblocking (SSH, Telnet, HTTP(S), FTP, CIFS/SMB, AFP)
	Policy based automatic IP blocking and IP filter
	Encrypted access (HTTPS, FTP with SSL/TLS(explicit),SSH/SFTP, RSync over SSH,
	CIFS host access control for shared folders
	ClamAV antivirus protection
	FIPS 140-2 validated AES 256-bit volume based data encryption
	Importable SSL certificates
	OpenVPN up to 256bit SSL/TLS, PPTP up to 128bit encryption
	Radius Server
	Instant alert via E-mail, SMS, Instant Messaging, LCD
Surveillance Station	2 channel free, up to 16 channels possible (fee-based)
	IP camera finder software and configuration
Multimedia	UPnP Media Server
	Built-in TwonkyMedia Server
	Real-time & Background Photo Transcoding
	Supports UPnP Media Player Such as PlayStation 3 and Xbox 360
	Supported format (The actual playback capabilities may vary depending on the UPnP client.)
	Audio: MP3, MP4, M4A, M4A (ALAC), M4B, 3GP, APL, AC3, M1V, M4V, MOV, AAC, AMR, AWB,
	WAV, PCM, LPCM, MP1, MP2, AIF, AIFF, AIFC, SND, WMA, OGG, FLAC
	Photo: JPG, JPE, JPEG, TIFF, TIF, GIF, PNG, BMP
	Video: WMV, ASF, VDR, AVI, XVID, DIVX, FLV, MPG, MPE, MTS, M2TS, M2T,
	MPEG, SPTS, M2P, M2V, MP2T, MP2P, MPG2, DVR-MS, VOB
	Playlist: M3U, M3U8, WPL, PLS
	DLNA Server
	Supports DLNA/UPnP TVs and Players such as PlayStation 3 and Xbox 360
	Supported audio format: AIFF, APE, DSD (DSF, DFF), FLAC, M4A, M4A Apple Lossless (ALAC), MP3,
	Ogg Vorbis, WAV (PCM, LPCM), WMA, WMA PRO, WMA VBR
	DRM encryption format is not supported.
	Support CUE indexing file for APE, FLAC audio format.
	Video and Audio On-the-fly Transcoding
	Multimedia Device
	Supports Photo, Audio and Video
	Image Slideshow and Rotation
	Automatic & Schedule Thumbnail Generation for Easy Browsing
	Display Photo Details from EXIF: Date, Exposure Time, Aperture, etc.
	Display Audio Details from ID3 Tag: Album Cover, Title, Artist, Album, etc.
	Access Authority Management
	Multimedia (Video & Audio) Streaming
	Supports Cooliris
	Supports Web Publishing (Facebook, MySpace, MSN Live, Twitter, Plurk, Blogger)
	Share Photos by Email
	Supported Formats:
	Photo - JPG/JPEG, GIF, PNG
	Audio - MP3
	Video
	Playback: FLV, MPEG-4 Video (H.264 + AAC)
	AVI, M4V, MPG/MPEG, RM/RMVB, WMV
Application center	Diverse applications downloadable via App center
	Fujitsu NAS Explorer, Fujitsu NAS Manager for Android / iOS
Download Station	BitTorrent (FTP/ HTTP scheduled download)
	Support of TCP/ UDP tracker protocol, distributed hash table/DHT
	Up to 500 BT download tasks
	Download configuration / download status list
	RSS download manager, subscription to RSS feeds, RSS download
	Multiple URLs in one task

Supported operating systems	Windows 8.1
	Windows 8
	Windows 7
	Windows Vista®
	Windows® XP
	Mac OS X
	Linux
	UNIX
	Windows® Server 2012
	Windows® Server 2008 R2
	Windows® Server 2003
Browser Support	Internet Explorer 10+ / Mozilla Firefox 8, 9, 10 / Apple Safari 4, 5 / Google Chrome
Video formats	
Picture formats	Media Server): jpg, jpe, jpeg, tiff, tif, gif, png, bmp
Supported file system	EXT4 (internal/external HDD)
	EXT3 (internal/external HDD)
	NTFS (external HDD)
	FAT32 (external HDD)
	HFS+ (externel HDD)

Electrical values

Device Classification	Information according to ErP Regulation (EC) No. 1275/2008 – Standby/networked standby requirements:
	All CELVIN® NAS Servers have a so called "EUP-mode" implemented. With activated "EuP-mode" the device has a maximum power consumption of 0.5 W in standby mode by limited functionality. (Details are described in the operating manual)
	The intended use of these type of networked infrastructure device is providing always available data access while operating (i.e. "always on"). The requirement of networked standby mode function as described in Regulation (EC) No. 1275/2008 Annex II, 3(b) ("Power management for networked equipment") would be inappropriate for this intended use of the equipment. It could only be achieved by turning off vital components of the equipment that are essential for the maintenance of the intended use.
Power consumption	Off-mode (EuP-mode):1.5W Off-mode (WoL-mode enabled): 9.6 W HDD-Sleep mode:35.5W Idle-mode:49.5W Raid5-R/W-mode :57.6 W all with two active power supplies installed
Power supply input	Internal swappable power supply module 2x250W 50-60Hz Input: 100-240V AC

Compliance

Europe	CE
USA/Canada	FCC Class A
Compliance notes	FCC Class A Warning
	This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

Dimensions / Weight / Environmental

Dimensions (W x D x H)	439 x 499 x 44 mm
Weight	Net weight: 7.6 kg, Gross weight: 9.6 kg
Operating ambient temperature	0 - 40 ℃
Operating relative humidity	5 - 95 % (relative humidity)

Package content

	CELVIN NAS Server QR802
	2x Power Cord EU Plug
	CD
	2x LAN cable
	2x Key for tray lock
	4x Trays
	2x rail mounting kit
	Quick Start Guide
	Service flyer

Order code

S26341-F103-L211	EAN: 4051554629076	Single Tray with 1 TB NAS Hard Disk Drive
S26341-F103-L212	EAN: 4051554629083	Single Tray with 2 TB NAS Hard Disk Drive
S26341-F103-L213	EAN: 4051554629090	Single Tray with 3 TB NAS Hard Disk Drive
S26341-F103-L214	EAN: 4053026594257	Single Tray with 4 TB NAS Hard Disk Drive
S26341-F103-L834	EAN: 4053026585897	4 x 4 TB NAS Hard Disk Drives
S26341-F103-L890	EAN: 4051554532277	w/o Hard Disk Drive, 4 trays included
S26341-F103-L891	EAN: 4051554532284	4 x 1 TB NAS Hard Disk Drives
S26341-F103-L892	EAN: 4051554532291	4 x 2 TB NAS Hard Disk Drives
S26341-F103-L893	EAN: 4051554532307	4 x 2 TB Business Critical Hard Disk Drives
S26341-F103-L894	EAN: 4051554532314	4 x 3 TB NAS Hard Disk Drives
S26341-F103-L895	EAN: 4051554532321	4 x 3 TB Business Critical Hard Disk Drives
S26341-F103-L899	EAN: 4053026518956	4 x 4 TB Business Critical Hard Disk Drives
VFY:QR802XX000E1	EAN: 4051554608743	w/o Hard Disk Drive, 4 trays included EU
VFY:QR802XX010E1	EAN: 4051554608774	4 x 2 TB NAS Hard Disk Drives EU

More information

Fujitsu OPTIMIZATION Services

In addition to FUJITSU CELVIN® NAS QR802, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about FUJITSU CELVIN® NAS QR802, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/accessories

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www.fujitsu.com/global/about/environment

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